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(54) Title: SCORPION TOXINS

SEQ ID NO:17	.....GLIDVR	*	C	YDSRQ	*	C	WIA	*	C	KKVTGSTQGK	*	C	QNKQ	*	C	R	*	C	Y
SEQ ID NO:02	MKILSVLLIAFIICSINICSEAGLIDVR	C	FASRE	C	WEA	C	RKVTGSGQGK	C	QNNQ	C	R	C	Y						58
	1																		

(57) Abstract

This invention relates to an isolated nucleic acid fragment encoding scorpion toxins that are K-channel agonists. The invention also relates to the construction of a chimeric gene encoding all or a portion of the K-channel agonists, in sense or antisense orientation, wherein expression of the chimeric gene results in production of altered levels of the K-channel agonists in a transformed host cell.